Vol. V

TRANSCRIPT OF RECORD

Supreme Court of the United States

OCTOBER TERM, 1938

No. 3

THE SCHRIBER-SCHROTH COMPANY, PETITIONER,

vs.

THE CLEVELAND TRUST COMPANY, CHRYSLER CORPORATION.

No. 4

THE ABERDEEN MOTOR SUPPLY COMPANY, PETITIONER,

28

THE CLEVELAND TRUST COMPANY, CHRYSLER CORPORATION.

No. 5

THE F. E. ROWE SALES-COMPANY, PETITIONER,

12.8

THE CLEVELAND TRUST COMPANY, CHRYSLER CORPORATION.

ON WRITS OF CERTIORARI TO THE UNITED STATES CIRCUIT COURT OF APPEALS FOR THE SIXTH CIRCUIT.

United States Circuit Court of Appeals

FOR THE SIXTH CIRCUIT.

THE CLEVELAND TRUST COMPANY, CHRYSLER CORPORATION,

Plaintiffs-Appellants,

No. 4045. EQUITY.

> No. 4046. EQUITY.

> > No. 4047. EQUITY.

THE SCHRIBER-SCHROTH COMPANY,

Defendant-Appellee.

THE CLEVELAND TRUST COMPANY, CHRYSLER CORPORATION, Plaintiffs-Appellants,

THE ABERDEEN MOTOR SUPPLY COMPANY,

Defendant-Appellee.

THE CLEVELAND TRUST COMPANY, CHRYSLER COEPORATION, Plaintiffs-Appellants,

THE F. E. ROWE SALES COMPANY, Defendant-Appellee.

> APPRAIS FROM THE DISTRICT COURT OF THE UNITED STATES, FOR THE NORTHERN DISTRICT OF OHIO, EASTERN DIVISION.

SUPPLEMENTARY TRANSCRIPT OF RECORD.

EVANS & McCoy, Bulkley Bldg., Cleveland, Ohio, RICHEY & WATTS, Union Trust Bldg., Cleveland, Ohio, Attorneys for Plaintiffs-Appellants.

JOHN H. BRUNINGA, Railway Exchange Bldg., St. Louis, Missouri, Kwis, Hudson & Kent, Union Trust Bldg., Cleveland, Ohio, Attorneys for Defendants-Appellees.



United States Circuit Court of Appeals

FOR THE SIXTH CIRCUIT.

THE CLEVELAND TRUST COMPANY, CHRYSLER COEPORATION,

Plaintiffs-Appellants,

VB.

No. 4045.

No. 4046.

THE SCHRIBER-SCHROTH COMPANY,
Defendant-Appellee.

THE CLEVELAND TRUST COMPANY, CHRYSLE CORPORATION,

Plaintiffs-Appellants,

VB.

THE ABERDEEN MOTOR SUPPLY COMPANY,
Defendant-Appellee.

THE CLEVELAND TRUST COMPANY,
CHRYSLER CORPORATION,
Plaintiff s-Appellants,

wa

No. 4047.

THE F. E. ROWE SALES COMPANY,
Defendant Appellee.

THE DISTRICT COURT OF THE UNITED STATES,
FOR THE NORTHERN DISTRICT OF OHIO,
EASTERN DIVISION.

SUPPLEMENTARY TRANSCRIPT OF RECORD.

Evans & McCov,
Bulkley Bldg., Cleveland, Ohio,
RICHEY & WATTS,
Union Trust Bldg., Cleveland, Ohio,
Attorneys for Plaintiffs-Appellants.

JOHN H. BEUNINGA,
Railway Exchange Bldg., St. Louis, Missouri,
Kwis, Hudson & Kent,
Union Trust Bldg., Cleveland, Ohio,
Attorneys for Defendants-Appellees.



INDEX.

	Equity No. 4046.	
	Caption	1
	Assignment of Errors:	
	Group A: Relating to the validity of Gulick patent No. 1,815,733	2
	Group B. Relating to infringement of Gulick patent in suit	2
	Group C: Relating to the validity of Jardine patent No. 1,763,523	3
	Group D. Relating to infringement of Jardine patent in suit	3
	Group H: Relating to infringement of Mooers	4
	Supplementary Praecipe	5
,		
	Equity No. 4047.	7
6	Assignment of Errors:	
	Group A: Relating to the validity of Gulick . patent No. 1,815,733	8
	Group B. Relating to infringement of Guliek	8
	Group C: Belating to the validity of Jardine patent No. 1,763,523	10
	Group D: Relating to infringement of Jardine patent in suit	10
	Group E: Relating to the validity of Maynard patent No. 1,655,968	11
	Group F: Relating to infringement of Maynard patent in suit.	11
	Group G: Relating to the validity of Mooers patent No. 1,402,309	12
	Group H: Relating to infringement of Mooers patent in suit	12
	Supplementary Practipe	13
2	•	48
	Clark's Cortifiente	15

CAPTION.

UNITED STATES OF AMERICA; NORTHERN DISTRICT OF OHIO,

EASTERN DIVISION, 88.

Record of the proceedings of the District Court of the United States within and for the Eastern Division of the Northern District of Ohio, in the causes and matters hereinafter stated, the same being finally disposed ters hereinafter stated, the same being finally disposed of at a regular term of said court begun and held at the City of Cleveland, in said district, on the first Tuesday in April, being the third day of said month, in the year of our Lord one thousand nine hundred and thirty-four and in the one hundred and fifty-eighth year of the Independence of the United States of America, to-wit, on Friday, the 27th day of July, A. D. 1934.

Honorable Paul Jones, United States District Judge.

THE CLEVELAND TRUST COMPANY, CHRYSLER CORPORATION

VS.

No. 4046.

THE ARENDERN MOTOR SUPPLY COMPANY.

Said action was commenced on the 17th day of October, APD 1931 and proceeded to final disposition at the term and day above written and during the progress thereof pleadings and papers were filed, process was issued and returned and orders of the court were made and entered in the order and on the dates hereinafter stated, to-wit:

ASSIGNMENT OF ERRORS.

(Filed April 17, 1936.) [Case No. 4046.]

Now come plaintiffs, The Cleveland Trust Company and Chrysler Corporation, and present with their accompanying petition for appeal from the final decree entered herein, the following assignment of errors, which are hereinafter grouped with respect to subject matter:

GROUP A.

Assignment of errors relating to the validity of

Gulick patent No. 1,815,733.

1. The Court erred in failing to find and hold the Gulick patent No. 1,815,733 good and valid in law, particularly as to claims 1, 11, 12, 13, 15, 18, 22, 27, 28, 29, 30, 33, 35, 36, 37, 38, 41, 42 and 43 thereof, and in failing to sustain plaintiffs' exceptions Nos. 2, 3 and 101.

Assignments 2 to 27, inclusive, same as in case 4045

(R. pp. 1233 to 1239).

GROUP B.

Assignment of errors relating to infringement of the

Gulick patent in suit.

28. The Court erred in not holding that defendant has infringed the Gulick patent No. 1,815,733, particularly as to claims 1, 11, 12, 13, 15, 18, 22, 27, 28, 29, 30, 33, 35, 36, 37, 38, 41, 42 and 43 thereof, and in failing to sustain plaintiffs' exceptions Nos. 45 and 102.

29. The Court erred in approving and adopting the

Special Master's finding of fact No. 38:

"That defendants' pistons, Exs. 1, and 8 do not embody the structure, function and mode of operation of the Gulick patent in suit."

and in not sustaining plaintiffs' exception (No. 44) to

the aforesaid finding of fact No. 38.

30. The Court erred in approving and adopting the Special Master's finding of fact No. 43 and in not sustaining plaintiffs' exception (No. 54) to the following statements and conclusions in the aforesaid finding of fact No. 43:

(a) " that the prior art requires restriction of the (Gulick) patent to the employment of webs which are of sufficient length and thinness to

permit flexing of those webs at the top of the

(b) that Exhibit 1 does not employ such charac-

teristic webs:

(c) that Exhibit 8 does not employ such characteristic webs: *

Assignment 31 same as in case 4045 (R. p. 1240).

32. The Court erred in approving and adopting the Special Master's finding of fact No. 49,

"That such construction and arrangement (of the connectors from the head to the wrist pin boss in Exhibit 8) does not secure the mode of operation contemplated by the Gulick and Jardine patents."

and in not sustaining plaintiff's exception (No. 60) to the aforesaid finding of fact No. 49.

33. The Court erred in approving and adopting the

Special Master's finding of fact No. 51:

"That defendants' pistons, Exs. 1, 9 employ the essential structure, function and mode of operation of the prior art, more particularly the Franquist patent No. 1,153,902 and Exs. 8 and 9, also the Chenard & Walcker French patent No. 468,595."

and in not sustaining plaintiffs' exception (No. 62) to the aforesaid finding of fact No. 51.

34. The Court erred in approving and adopting the Special Muster's conclusion of law No. 37:

"That defendant's pistons, Exs. 1,

do not infringe the Gulick patent in suit."

and in not sustaining plaintiffs' exception (No. 89) to the aforesaid finding of fact No. 49.

GROUP C.

Assignment of errors relating to validity of the Jardine patent No. 1,763,523.

Assignments 35 to 11, inclusive, same as 34 to 40, inclusive, in case 4045 (R. pp. 1241 to 1242).

GROUP D.

Assignment of errors relating to infringement of Jardine patent in suit.

Assignment 42 same as 41 in case 4045 (R. p. 1242).

43. The Court erred in approving and adopting the Special Master's finding of fact No. 39:

"That defendants pistons, Exhibits 1, * * and 8 do not embody the structure, function and mode of operation of the Jardine patent in suit."

and in not sustaining plaintiffs' exception (No. 46) to the aforesaid finding of fact No. 39.

44. The Court erred in approving and adopting the Special Master's finding of fact No. 44 and in not sustaining plaintiffs' exception (No. 55) to the following statements and conclusions in finding of fact No. 44:

(a) " • • • that the prior art requires restriction of the patent (Jardine) to the employment of webs which are of sufficient lengths and thinness to permit flexing of these webs at the top of the skirt;

(b) that Ex. 1 does not employ such characteristic

webs:

(c) that Ex. 8 does not employ such characteristic webs."

45. The Court erredch approving and adopting the Special Master's conclusion of law No. 38:

"That defendants' pistons, Exs. 1, and 8 do not infringe the Jardine patent in suit."

and in not sustaining plaintiffs' exception (No. 90) to the aforesaid conclusion of law No. 38.

Groups and Assignments 46 to 67, inclusive, same as 45 to 66, inclusive, in case 4045 (R. pp. 1243 to 1247).

GROUP H.

Assignment of errors relating to infringement of Mooers patent in suit.

Assignment 68 same as 67 in case 4045 (R. p. 1248).

69. The Court erred in approving and adopting the Special Master's finding of fact No. 41:

"That defendants' pistons, Exs. 1, 8 and 9 do not embody the structure, function and mode of operation of the Mooers patent in suit."

and in not sustaining plaintiffs' exception (No. 50) to the aforesaid finding of fact No. 41.

70. The Court erred in approving and adopting the Special Master's finding of fact No. 46 and in not sus-

taining plaintiffs' exception (No. 57) to the following statements and conclusions included in the Special Master's finding of fact No. 46:

(a) " . . that the prior art requires such a restriction; (of the connectors from the head to the top of the skirt in the Mooers patent to narrow connectors of restricted cross sections):

that in Exs. 1, * * * 8 and 9 the connectors are heavy and rot of a structure as described in the Mooers patent . . . ,,

71. The Court erred in approving and adopting the Special Master's conclusion of law No. 40:

* 8 and 9 do "That defendants' pistons, Exs. 1, net infringe the Mooers patent in suit."

and in not sustaining plaintiffs' exception (No. 92) to the aforesaid conclusion of law No. 40.

Groups and Assignments 72 to 82, inclusive, same as 71 to 81, inclusive, in case 4045 (R. pp. 1248 to 1250).

SUPPLEMENTARY PRAECUPE.

(Filed April 17, 1936.)

[Case No. 4046.]

To the Clerk :-

Please prepare a supplementary transcript of record for the Circuit Court of Appeals, Sixth Circuit, in the above entitled cause, including the following:

- 1. Caption.
- 2. Assignment of Errors (per copy attached).
- 3. This Supplementary Praccipe.
- 4. Clerk's Certificate.

Please deliver these documents, above noted, to The Gates Legal Publishing Company.

RICHEY & WATTS. Counsel for Plaintiffs. The foregoing practipe, together with the Assignment of Errors as attached hereto and setting forth assignments of errors differing from the assignments of Berrors printed in full in Equity No. 4045 has been agreed upon by counsel for the respective parties subject to the approval of the Court for the purpose of supplying omissions from the printed record. The Assignments of Errors were inadvertently not included in the consolidated record on appeal of causes in Equity Nos. 4045, 4046, 4047.

It is further stipulated that the supplemental transcript of record be consolidated in form to agree with the main Consolidated Transcript of record on appeal of causes in Equity Nos. 4045, 4046 and 4047, and entitled Cleveland Trust Company and Chrysler Corporation vs. The Schriber-Schroth Company, No. 4045; Cleveland Trust Company and Chrysler Corporation v. The Aberdeen Motor Supply Company, No. 4046; and Cleveland Trust Company and Chrysler Corporation v. The F. E. Rowe Sales Company, No. 4047.

RICHEY & WATTS,

Counsel for Plaintiffs.

April 7, 1936.

Without waiving other objections to record.

JOHN H. BRUNINGA, Counsel for Defendant.

April 15, 1936. Dated: April 17, 1936.

APPROVED:

Jones, United States District Judge. UNITED STATES OF AMERICA, NORTHERN DISTRICT OF OHIO, EASTERN DIVISION, 88.

Record of the proceedings of the District Court of the United States within and for the Eastern Division of the Northern District of Ohio, in the causes and matters hereinafter stated, the same being finally disposed of at a regular term of said court begun and held at the City of Cleveland, in said district, on the first Tuesday in April, being the third day of said month, in the year of our Lord one thousand nine hundred and thirty-four and in the one hundred and fifty-eighth year of the Independence of the United States of America, to-wit, on Friday, the 27th day of July, A. D. 1934.

Honorable PAUL JONES,
United States District Judge.

THE CLEVELAND TRUST COMPANY, CHRYSLEE CORPORATION,

VS.

No. 4047.

THE F. E. ROWE SALES COMPANY.

Said action was commenced on the 17th day of October, A. D. 1931 and proceeded to final disposition at the term and day above written and during the progress thereof pleadings and papers were filed, process was issued and returned and orders of the court were made and entered in the order and on the dates hereinafter stated, to-wit:

ASSIGNMENT OF ERRORS.

(Filed April 17, 1936.) [Case No. 4047.]

Now come plaintiffs, The Cleveland Trust Company and Chrysler Corporation, and present with their secompanying petition for appeal from the final decree entered herein, the following assignment of errors, which are hereinafter grouped with respect to subject matter:

GROUP A.

Assignment of errors relating to the validity of Gulick patent No. 1,815,733.

1. The Court erred in failing to find and hold the Gulick patent No. 1,815,733 good and valid in law, particularly as to claims 1,4, 11, 12, 13, 15, 18, 22, 27, 28, 29, 30, 23, 34, 35, 36, 37, 38, 41, 42 and 43 thereof, and in failing to sustain plaintiffs' exceptions Nos. 2, 3, and 101.

Assignments 2 to 27 inclusive, same as in case 4045.
(B. pp. 1233 to 1259.)

GROUP B.

Assignment of errors relating to infringement of the Gulick patent in suit.

28. The Court erred in not holding that defendant has infringed the Guliek patent No. 1,815,733, particularly as to claims 1, 4, 11, 12, 13, 15, 18, 22, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 41, 42 and 43 thereof, and in failing to sustain plaintiffs exceptions Nos. 45 and 102.

29. The Court erred in approving and adopting the

Special Master's finding of fact No. 38,

That defendants' pistons, Exs. 1, BBB, CCC, 3-J, 3-O and 8 do not embody the structure, function and mode of operation of the Gulick patent in suit."

and in not austaining plaintiffs' exception (No. 44) to the aforesaid finding of fact No. 38.

30. The Court erred in approving and adopting the Special Master's finding of fact No. 43 and in not sustaining plaintiffs' exception (No. 54) to the following statements and conclusions in the aforesaid finding of fact No. 43:

the (Guliek) patent to the employment of webs

which are of sufficient length and thinness to . permit flexing of those webs at the top of the

that Exhibit 1 does not employ such charac-(b)

teristic webs:

that Exhibit 8 does not employ such character-(c) istic webs; and

that Exhibits BBB and CCC * * * employ no (d) webs at all."

Assignment 31 same as in case 4045 (R. p. 1240).

32. The Court erred in approving and adopting the Special Master's finding of fact No. 49,

"That such construction and arrangement (of the connectors from the head to the wrist pin boss in Exhibit 8) does not secure the mode of operation contemplated by the Gulick and Jardine patents."

and in not sustaining plaintiffs' exception (No. 60) to the

aforesaid finding of fact No. 49.

33. The Court erred in approving and adopting the Special Master's finding of fact No. 50 and in not sustaining plaintiffs' exception (No. 61) to the following statements and conclusions in the said finding of fact No. 50:

"That Exs. BBB and CCC " do not employ any webs connecting the head with the skirt and, therefore, no webs of such flexibility as contemplated by the Gulick, Jardine and even Maynard patents, if the latter has such webs having such characteristics."

84. The Court erred in approving and adopting the Special Master's finding of fact No. 51,

"That defendants" pistons, Exs. 1, BBB, CCC, 3-J, 3-O, 8 and 9 empley the essential structure, function and mode of operation of the prior art, more particularly the Franquist patent No. 1,153,902 and Exs. 8 and 9, also the Chenard & Waleker French patent No. 468,595."

and in not sustaining plaintiffs exception (No. 62) to the aforesaid finding of fact No. 51.

35. The Court erred in approving and adopting the Special Master's conclusion of law No. 37,

100

*** * that defendants' pistons, Exs. 1, BBB, CCC, 3-J, 3-O and 8 do not infringe the Gulick patent in suit."

and in not sustaining plaintiffs' exception (No. 89) to the aforesaid conclusion of law.

GROUP C.

Assignment of errors relating to validity of the Jardine patent No. 1,763,523.

Assignments 36 to 42, inclusive, same as assignments 34 to 40, inclusive, of case 4045 (R. pp. 1241 to 1242).

GROUP D.

Assignment of errors relating to infringement of Jardine patent in suit.

Assignment 43 same as 41 in case 4045 (R. pp. 1242).

44. The Court erred in approving and adopting the Special Master's finding of fact No. 39,

"That defendants' pistons, Exhibits 1, BBB, CCC, and 8 do not embody the structure, function and mode of operation of the Jardine patent in suit."

and in not sustaining plaintiffs' exception (No. 46) to the aforesaid finding of fact No. 39.

- Special Master's finding of fact No. 44 and in not sustaining plaintiffs' exception (No. 55) to the following statements and conclusions in finding of fact No. 44:
 - (a) "" that the prior art requires restriction of the patent (Jardine) to the employment of webs which are of sufficient lengths and thinness to permit flaxing of these webs at the top of the skirt;
 - (b) That Ex. 1 does not employ such characteristic webs;
 - (e) that Ex. 8 does not employ such characteristic.
 - (d) that Exs. BBB and CCC employ no webs at all.".
- 46. The Court erred in approving and adopting the Special Master's conclusion of law No. 38,

"That defendants' pistons, Exs. 1, BBB, CCC and 8 do not infringe the Jardine patent in suit."

and in not sustaining plaintiffs' exception (No. 90) to the aforesaid conclusion of law No. 38.

GROUP E.

Assignment of errors relating to validity of the Maynard patent No. 1,655,968.

Assignments 47 to 56, inclusive, same as 45 to 54, inclusive, in case 4045 (R. pp. 1243 to 1245).

GROUP F.

Assignment of errors relating to infringement of Maynard patent in suit.

Assignment 57 same as 55 in case 4045 (R. p. 1245).

58. The Court erred in approving and adopting the Special Master's finding of fact No. 40,

"That defendants' pistons, Exs. 1, BBB, CCC do not embody the structure, function and mode of operation of the Maynard patent in suit."

and in not sustaining plaintiffs' exception (No. 48) to the aforesaid finding of fact No. 40.

59. The Court erred in approving and adopting the Special Master's finding of fact No. 45 and in not sustaining plaintiffs' exception (No. 56) to the following statements in the Special Master's finding of fact No. 45:

- (a) That the Maynard patent in suit describes a piston structure in which automatic compensation is not secured unless the groove E is cut into the webs F sufficiently and beyond the inside of the piston head flange to secure web extensions at the top of sufficient length and thinness to permit flexing of these web extensions at the top of the skirt;
- (b) that Ex. I does not employ such characteristic

(e) that Exs. BBB and CCC employ no webs at all."

60. The Court erred in approving and adopting the Special Master's conclusion of law No. 39,

do not infringe the Maynard patent in suit."

and in not sustaining plaintiffs' exception (No. 91) to the aforesaid conclusion of law No. 39.

GROUP G.

Assignment of errors relating to validity of Mooers patent No. 1,402,309.

Assignments 61 to 68, inclusive, same as 59 to 66, inclusive, in case 4045 (R. pp. 1246 to 1247).

GROUP H.

Assignment of errors relating to infringement of Mooers patent in suit.

Assignment 69 same as 67 of case 4045 (R. p. 1248).

70. The Court erred in approving and adopting the Special Master's finding of fact No. 41,

"That defendants' pistons, Exs. 1, BBB, CCC, 3-0, 8 and 9 do not embody the structure, function and mode of operation of the Mooers patent in suit."

and in not sustaining plaintiffs' exception (No. 50) to the aforesaid finding of fact No. 41.

- 71. The Court erred in approving and adopting the Special Master's finding of fact No. 46 and in not sustaining plaintiffa' exception (No. 57) to the following statements and conclusions included in the Special Master's finding of fact No. 46:
 - (a) " that the prior art requires such a restriction; (of the connectors from the head to the top of the skirt in the Mooers patent to narrow connectors of restricted gross sections);

72. The Court erred in approving and adopting the Special Master's conclusion of law No. 40:

That defendants' pistons, Exs. 1, BBB, CCC, 3-0, 8 and 9 do not infringe the Mooers patent in mit."

and in not sustaining plaintiffs' exception (No. 92) to the aforesaid conclusion of law No. 40.

Remaining groups and Assignments 73 to 83, inclusive, same as 71 to 81 of case 4045 (R. pp. 1249 to 1250).

SUPPLEMENTARY PRAECUPE.

(Filed April 17, 1936.)

[Case No. 4047.]

To the Clerk:

Please prepare a supplementary transcript of record for the Circuit Court of Appeals, Sixth Circuit, in the above entitled cause, including the following:—

- 1. Caption.
- 2. Assignment of Errors (per copy attached).
- 3. This Supplementary Praccipe.
- 4. Clerk's Certificate.

Please deliver these documents, above noted, to The Gates Legal Publishing Company.

RICHEY & WATTS, Counsel for Plaintiffs.

The foregoing praccipe, together with the Assignment of Errors as attached hereto and setting forth assignments of errors differing from the assignments of errors printed in full in Equity No. 4045 has been agreed upon by counsel for the respective parties subject to the approval of the Court for the purpose of supplying omissions from the printed record. The Assignments of Errors were inadvertently not included in the consolidated record on appeal of causes in Equity Nos. 4045, 4046, 4047.

It is further stipulated that the supplemental transcript of record be consolidated in form to agree with the main Consolidated Transcript of record on appeal of causes in Equity Nos. 4045, 4046 and 4047, and entitled Cleveland Trust Company and Chrysler Corporation v. The Schriber-Schroth Company, No. 4045; Cleveland Trust Company and Chrysler Corporation v. The Aberdeen Motor Supply Company, No. 4046; and Cleveland Trust Company and Chrysler Corporation v. The F. E. Rowe Sales Company, No. 4047.

RICHEY & WATES, Counsel for Plaintiffs. Without waiving other objections to record.

JOHN H. BRUHINGA, Counsel for Defendant.

April 15, 1936.

Dated: April 17, 1936.

Approved: Joses,
United States District Judge.

CERTIFICATE OF CLERK.

NORTHERN DISTRICT OF OHIO, 88.:

I, F. J. Denzler, Clerk of the United States District Court within and for said district, do hereby certify that the foregoing printed pages Jontain a full, true and complete copy of the pleadings in Equity Nos. 4046 and 4047 in accordance with the Supplementary Praccipe for transcript of record filed herein, the originals of which papers remain in my custody as clerk of said court.

In Testimony Whereof, I have herernto signed my name and affixed the seal of said court at Cleveland, in said district, this ... day of April, A. D. 1936 and in the One hundred and sixtieth year of the Independence of ...

the United States of America.

F. J. DERELER,
Clerk,
By C. B. WATEIRS,
Chief Deputy.

(Seal)



[fol. 2379] PROCEEDINGS IN THE UNITED STATES CIRCUIT

Causes Argued and Submitted May 4, 1937

Before Hicks, Simons and Allen, JJ.

These causes are argued by Newton D. Baker and F. O. Richey for Appellants and by J. H. Bruninga and J. H. Sutherland for Appellees and are submitted to the court.

DECREE No. 7223-Filed October 8, 1937

Appeal from the District Court of the United States for the Northern District of Chio

This cause came on to be heard on the transcript of the record from the District Court of the United States for the Northern District of Ohio; and was argued by counsel.

On Consideration Whereof, It is now here ordered, adjudged and decreed by this Court that the decree of the said District Court in this cause be and the same is hereby set aside and the cause remanded for the entry of a decree granting the usual relief of injunction and accounting in respect to the infringement of claims 1, 11, 12, 13, 15, 18, 30 and 33 of Gulick, and claims 1, 6 and 8 of Maynard patent, which claims are valid and infringed by the Storling piston, enoughified by Exhibit 1, and dismissing the bill with respect to the alleged infringements of Jardine, Mosers and Schmiedelments without prejudice. Costs of the appeal will be borne by the defendant.

[fol. 2380] Ducana No. 7224 Filed October 8, 1937

Appeal from the District Court of the United States for the Northern District of Ohio

This cause came on to be heard on the transcript of the record from the District Court of the United States for the Northern District of Ohio, and was argued by counsel.

On Consideration Whereof, It is now here ordered, adjudged and decreed by this Court that the decree of the said District Court in this cause be and the same is hereby set aside and the cause remanded for the entry of a decree granting the usual relief of injunction and accounting in respect to the infringement of claims 1, 11, 12, 13, 15, 18, 30 and 33 of Gulick, and claims 1, 6 and 8 of Maynard patent, which claims are valid and infringed by the Sterling piston, exemplified by Exhibit 1, and dismissing the bill with respect to the alleged infringements of Jardine, Mooers and Schmiedeknecht without prejudice. Costs of the appeal will be borne by the defendant.

DECREE No. 7225-Filed October 8, 1937

Appeal from the District Court of the United States for the Northern District of Ohio

This cause came on to be heard on the transcript of the record from the District Court of the United States for the Northern District of Ohio, and was argued by counsel.

On Consideration Whereof, It is now here ordered, adjudged and decreed by this Court that the decree of the said District Court in this cause be and the same is hereby set aside and the cause remanded for the entry of a decree granting the usual relief of injunction and accounting in respect to the infringement of claims 1, 11, 12, 13, 15, 18, 30 and 33 of Gulick, and claims 1, 6 and 8 of Maynard patent, which claims are valid and infringed by the Sterling picton, exemplified by Exhibit 1, and dismissing the bill with respect to the alleged infringements of Jardine, Mooers and Schmiedeknecht without prejudice. Costs of the appeal will be borne by the defendant.

Service Control

Opinion-Filed October 8, 1937

[fol. 2381] [Stamp:] Filed Oct. 8, 1937. John W. Menzies, Clerk

Nos. 7223-4-5

UNITED STATES CIBOUIT COURT OF APPRAIS, SIXTH CIBOUIT

No. 7223

THE CLEVELAND TRUST COMPANY, CHRYSLES CORPORATION, Appellants,

THE SCHRIBES-SCHROTH COMPANY, Appellee

No. 7224

THE CLEVELAND TRUST COMPANY, CHEVELEE CORPORATION,

THE ABERDEEN MOTOR SUPPLY COMPANY, Appellee

No. 7225

THE CLEVELAND TRUST COMPANY, CHRYSLE CORPORATION,
Appellants,

THE F. E. ROWN SALES COMPANY, Appellee

Appeals from the District Court of the United States for the Northern District of Ohio, Eastern Division

Decided October 8, 1937

Before Hicks, Simons and Allen, Circuit Judges

Smoss, Circuit Judge:

In a study of the patents and prior art involved in Wankesha Motor Co. v. Willys Overland, Inc., 77 Fed. (2d) 906, and The Perfect Circle Co. v. Hastings Mfg. Co., 88 Fed. (2d) 813, we learned something of the principles of operation and the mechanics employed in the conventional four-cycle internal combustion engine of the modern [fol. 2382] motor car. It will therefore be unnecessary here to repeat what was there said in reference thereto. In the first we considered the explosion chamber, and in the second the piston ring. In the present infringement suit we deal with the piston.

In the rapid reciprocation of a piston within the cylinder, as in the references described, the desirability of maintaining a close fit was obvious and had long been recognised. This was necessary to avoid waste of power through gaves being permitted to pass below the piston from the explosion chamber, a condition known as "blow-by," to prevent inbrienting oil passing above the piston into the explosion chamber, a condition known as "pumping oil," and to prevent the slapping of the piston in the cylinder, making for a noisy engine and tending to break its parts. On the other hand a too close fit would, because of the urpansion of the piston by the great heat generated in the cylinder, cause it to hind or "seize" therein, thus stalling the engine or perhaps even wrecking it.

scally still are must of iron, and prior to the period we are here could likewise so ca t The d were early reas o iron is a p hect the part would form of der head would b and with the great to the ever incr gan to es There were in e great fo head and the pow - by the power t the grank shift were prorequities the Art versitions to moth that was both fore, quite autorally and inevitably, to aluminum. Afterwand does along time securingly insuperable problem at once confronted the automotive engineers, due to the fact that fore, quite autorally a the coefficient of expansion differs greatly in the two metals, and that under heat aluminum will expend much more repidly than iron. Since the desirable clearance is minute, approximating one one thousandth of an inch, it was at once clear that an aluminum piston, installed when cold with required clearance in an iron sylinder, would when heated by operation usine, and that a piston with clearance [fol. 2583] unificient to avoid using would waste power, pump oil, cause unifositable noises, and lock durability.

Ingenious, animerous and varied were the expedients re-

Ingenious, numerous and varied were the expedient resorted to in an effort to actiove the clearly renegated advantages of aluminum piatons, while at the same time avoiding troublecome results, and equally numerous were the failures, by reason of which a projudice had developed in the industry against them, and it was said they had had a

"black eye."

The Cleveland Trust Company, appellant, is the repenitory of numerous patent rights assigned to it by inventors and by piston and automobile manufacturers, and it is its contention that the aluminum piston problem was comon, and that a strucpletely solved by some of its an ture embodying the disclosures of the patent to Jardine, No. 1,763,563; granted June 10, 1930, but in a more specific and improved form described in Mayneed No. 1,855,968. granted January 10, 1928, but on an ap me into vide ; Jardine's, had m cepted by the in cepted by the industry, with the encept sions of the General Misters Corporation tens of millions, and is now infringed appellers. The Jamino and Mayanrd the Trust Company, Commission by appliention, wh Motor Car Company, would, with its nate both Jacobse and Mayners, th chased it and prosecuted 1.815.733 on July 21, 1981. Schmiedskreicht patient No. 1 2660 1918, and Moura No. 1 402 am, both for pirtone, and seven accura-to infranço some of the distance patenta

patents.
The appelless are three Cleveland dealers who have add alleged infringing pistons manufactured by the Starling Products Corporation of St. Louis, Missouri While the

manufacturer was named in the original bills of complain they were dismissed as to it, it being understood, however that Sterling Products Corporation was conducting defense of the three suits. By stipulation they were on solidated below, and all are before this court upon same record. At the outset only two alleged infringi devices were involved, one a Sterling piston known as E hibit 1, and the other a Ray-Day piston known as Exhibit During the progress of the trial five additional structure were introduced as infringements. While there is no fin [fol. 2384] ing to that effect, it seems to have been assume that all of the alleged infringing devices were sold by each of the three defendants. The consolidated cause was r ferred to a master, whose very detailed findings of fa and conclusions of law were affirmed by the District Judy without discussion and decrees entered dismissing the bill While the Chrysler Corporation appears as party plainti below and as co-appellant here, it has never entered it appearance and its presence in the case as a nominal plain tiff is due to the fact that it owns a half interest in th Maynard patent and was therefore joined as party plain tiff. An issue raised below as to the propriety of Chrys ler being made a nominal party is abandoned here, since the defendants have not appealed.

The controversy is involved and has been bitterly fought. The record is voluminous, the arbibits, physical and other wise, numerous, the patent office history discloses permitted challenge, and of nighty-odd claims fifty-two are said to be infringed. While we have given eareful consideration to the briefs and record, it is manifest that the necessitie of the case and the desirable limit of an opinion will permit us to discuss only the more salient features of the controversy, with perhaps animary disposition of its lesses issues, for the challenge to the validity of the patents and to the fact of their infringement includes most if not all of the defenses known to the patent law.

We deal first with the flatent to Guliuk, in agreement

We deal first with the flatent to Galick, in agreemen with the contention that if valid it is basic. Galick has been connected with various motor car and motor gyple manufacturing companies in a mumber of capacities, in cluding that of factory manager. He was also an investor, having prescented some fifty applications in the patent office. As early as 1906 he had a conception of a split and

flexible piston, but did nothing more for several years than to make sketches. In 1911 he made some experiments with modified standard iron pistons, giving them block tests in a motor evele and in an Excelsior motor. The motor was later put into a Renault car and given a substantial road test. These early pistons were scrapped. In 1914 he made his first test with aluminum pistons in an Amplex car. which he used personally for some 4500 to 5300 miles. In 1917, along with other patents and patent applications, Gulick assigned his incheste rights to the Packard Motor Car Company, and the application for the piston patent was filed by it on November 30th at that year. There followed long discussions with the examiners, administrative reviews, bitterly contested interferences, and appeals to [fol. 2385] the Court of Appeals of the District of Columbia (Long v. Gulick, 17 Fed. [2d] 686), and to the Court of Customs and Patent Appeals (Hartog v. Long, 47 Fed. [2d] 369). There had also been amendments to the original application at the instance of the inventor's assignee. It was not until July 21, 1931, that the Gulick patent issued with its forty-three claims.

The Gulick patent is for a combination of elements. many, if not indeed all of which, are to be found in the prior art. Nowhere, however, is found his precise organization, and the question at once presents itself as to whether there was exercise of the inventive faculty in the concept of their combination, for that a new result was achieved and a new mode of operation of an aluminum piston in its iron cylinder brought about is not successfully challenged on this record. Gulick separated the smaller ring carrying head of the piston from the somewhat larger skirt by a groove or air gap. This tends to prevent the passage of heat from the head directly to the skirt and permits the bearing faces of the skirt to yield to pressure independently of the head. The wrist pin books are pulled inwardly from the skirt periphery, and instead of being supported by the skirt are carried from the piston head by depending flanges, thus providing a vertically rigid support for the bosses with freedom of lateral motion in a direction at right mades to the load thrusts on the piston. The surface of the skirt where the bosses are connected to the head in conventional pistons was cut away or relieved, so that the bosses are not directly constrained by the cylinder

They are held in place by webs extending in the general direction of load thrusts on the piston. One bearing face of the skirt is slotted vertically from the bottom edge up to and connecting with the sir gap. That Spillman and Mooers patent 1,092,870, and Franquist patent 1,153,902 showed air gaps between piston head and skirt, or that splitting the piston skirt vertically or combining the vertical and longitudinal splits into the so called T slot were old practices, is not conclusive on the question of invention.

Since the cylinder head is the first to heat, and becomes hotter than the skirt it had always been machined with greater clearance the control of oil and gas flow being taken care of in part at least by the piston rings, which function as a packing. See Perfect Circle Co. v. Hantings. supra. The problem of maintaining a close fit between an aluminum piston and an iron cylinder without seining under heat expansion is a problem involving the skirt, which guides the piston and earries the bearings for the wrist pin, [fol. 2386] upon which is exerted the thrusts of the connecting rod through the cycle of reciprocation. To decelerate the flow of heat from piston head to skirt by an air gap was perhaps an obvious appedient in the art. To slit the skirt vertically so that pressure of the cylinder wall would compensate for thermal expansion was perhaps not beyond expected skill in the art. Minute relief of the cylinder periphery in the region of the bosses was shown in Franquist. But to combine insulation of head from skirt, retraction of the bosses from the skirt periphery, connection of such bosses to the skirt with webs interally flerible and yet so earned from the head as to support the load upon the weist pin with sufficient strength and rigidity, and to whiles the machanical force of the cylinder will upon the okirt and the thermal apparation of the beases so as to com-pensate eventy and fully for head apparation and to scoure a) balanced floribility of the skirt with not bending concentration at any point therein, discloses, we think, a meritorious concept beyond the reach of those skilled in the art. Franquist, of course, does disclose the broad concept of a flexible skirt. [But Franquist gives no hint at all of the Quilish invention. [His flexibility was obtained by grooves on the accordion principle, which while they interrupted the outer periphery of the pirton hirt, did not destroy its inner unity. Some familility no doubt it had, but certainly

not in the sense that Gulick disclosed it, and it is doubtful that the Franquist piston could have met the severe tests required by the industry. And of commercial history it has none upon this record.

Probably the most difficult task that confronts a patent court lies in determining whether there is invention in a combination whereof many or all cooperating elements are old, and when concepts, however remarkable when disclosed have in a rapidly developing art already become commonplace, not only to the expert but to the unskilled. It is not easy after the lapse of years to evaluate advances with the "eye and the understanding" of those in the field when they were made. Inventive concept is an abstraction impossible to define, and so courts have sought for simple rules by which its presence may be detected. These have proved helpful, even though never absolute. Long recognition of an existing problem in any art, and the advantages to accrue to an industry from its solution, coupled with repeated failures to find solution, has even been considered as highly personsive of invention when success is finally attained. Sometimes achievement is revolutionary, an abandonment of all previous approaches, and the chart-[fol. 2387] ing of a new way to the goal. More often the inventor begins where others leave off, and perceives the vital forward stap to which predecessors had been blind. Even then success may not be fully recognized until the world gives aculaim,

The present record is conclusive of the long unsuccessful search for a light wel, ht piston sufficiently durable to obviate the well-known disadvantages of the iron trusk piston in high speed engines. There was much research and experimentation by those most highly skilled, including the engineers of the Aluminum Company, Colonel Vincent of the Packard Meter Car Company, one of the designers of the Liberty engine, and the engineering staff of the Franklin Automobile Company, under the direction of the defendants' expert Stellman, its Chief Engineer. I Limited success may here and there have been attained; but the problem in its full sweep was not solved until the Guliek concept, carried forward to some entent by Maynard, with possibly some instruction from Jardine, reached commercial embodiment. Then and then only did the industry by acceptance of the Aluminum Company's piston answering the Maynard draw-

ing and specification, recognize the complete solution of the problem, and the many millions that have since been sold and used have set the seal of commercial approval upon such solution. It is idle to say in an imperfect world that invention should be denied because no piston, not even Maynard.

performs perfectly.

It is, of course, axiomatic that commercial success is not of itself conclusive upon the question of novelty or invention, and where such success is fairly attributable to other causes, such as the reputation of the manufacturer, his extensive advertising and superior salesmanship, it will be wanting in persuasiveness. But where no alternative inferences are to be drawn, commercial success is highly indicative of invention. This is so in the usual case where the test of success is acceptance by the public. But it must be here noted if not elsewhere observed, that where success follows acceptance by experts rather than by those unskilled. it is of far greater tribute to the ingenuity of the inventor. It is clearly demonstrated upon this record, if indeed it is not within the field of general knowledge, that the automotive industry in acceptance of new devices upon which success of highly complicated and delicate machinery in the hands of incapart users must depend, exercises the greatest caution, and things now, whatever their theoretical virtue, will not be considered until they have been subjected to the most rigorous practical tests for efficiency and durability. [fol. 2388] This must be so when failure of one year's prodnot may bring trumendous louses or complete disaster.

So also with respect to the presumption that attaches to the validity of a grant by the Patent Office. Where, as in this case, substantially all pertinent prior art has been cited against the patent, where in hard fought interferences novelty and invention have been challenged, and where upports of competion has been faully adjudicated only upon repeated review in both administrative and judicial forums, the patent should not be stricken down except upon very clear and convincing proof of invalidity. The weight to be given this presumption has been so recently and so there oughly discussed, and the rule stated in all the varying formulae by which courts have announced and affirmed it, in Radio Corporation v. Radio Laboratories, 293 U.S. 1, that it is annecessary here to repeat or to cite additional

In what we have said thus far it is perhaps clear that in respect to novelty and invention over recorded prior art we have concluded the Guick putent to be valid. But this is not the whole controversy with respect to it. It is the contention of the defendant that the Gulick patent is invalid because abandoned by him prior to his application, and because it had been in public use in this country for more than two years before such application within the purview of R. S. 664886, 4920. The Master so held. His findings were based on the fact that Gulick's 1911 and 1914 pistons had been scrapped, and on inference that Gulick's expressed satisfaction with his 1914 experimentation was conclusive of the completion of his invention in that year. That there had been no formal abandonment or disclaimer is clear. The Master's findings are based upon constructive abandonment deduced from the above gircumstances and delay in applying for a patent.

Questions relevant to actual or to constructive abandonment of inventions are questions of fact, Walker, 6th Ed., 6152; Kendall v. Winsor, 21 How. 330; and much weight must therefore be given to the findings of the Master, who saw and heard the witnesses. Consideration should also be given to the rule that concurrent findings of Master and Judge should not be set aside except for clear error, although this may prove to be an unuafe guide to just decision where exceptions to a Master's report are unilluminated by oral argument and a decree entered without elucidation of the reasons upon which it is based. The law, however, in reference to abandonment requires that every reasonable doubt relevant to any such question should be resolved in favor of [fol 2389] the putent, for it does not favor forfeiture. Walker, \$152 and cases there cited. It was said by this court, Gear Grinding Machine Co. v. Studebaker Corp., 270 Fed. 934, 936: "Abandoument depends ppon intent, actual or imputed. The setual intent did not exist, and the circumstances do not require that the intent be by law imputed as against the truth." That Chilick did not intend to abandon the subject matter of his invention seems to us clear. From the beginning of his experimentation in 1911 he made drawings from time to time, tests with about iron pistons and later with slotted aluminum pistons; and was at the same time not only busy in the earning of a livelihood but with plans for the purchase from a receiver of the property of the Amplex Motor Car Company. The scrapping of his experimental pistons was without his knowledge or consent, and the fact that he replaced the experimental pistons of the Rescult car with standard pistons before its sale negatives any inference that the experimental pistons were intended to be abandoned. Distinction must also be made between abandonment of the subject matter of a patent and abandonment of crude experimental devices. While Galick veriously expressed entisfaction with the performance of his experimental pistons, it is clear apen review of his entire evidence that what he had then in mind was that they performed entisfactorily in reference to clearance. They had not demonstrated their strength and durability, or that they were properly designed or machined for compagnial use.

The Master was largely influenced by the fact that Gallek's clarification of his testimeny followed a record, and gave little aradence to it. We have reviewed it enrefully. That Gallek's experiments were not completed to the end that a practical platen had been fully designed and tested seems clear. He is in some respects corroborated and in no wise impeached. More consisten as to his good faith is not such clear and convincing proof of chandement as will satisfy every reasonable doubt and sustain the heavy burden which rests upon those chillenging the validity of his patient. The Master did not apply to the evidence on the imme of abundonment that standard of proof required to establish its and so the question is one of law, and the fading must be rejected.

There was no public use of the Galick invention more than two years prior to the application so as to invalidate the putent. So long as use by the inventor can fairly be considered superimental and collateral to the development of the invention in its complete form; the bar of the statistic does not begin to run. [Boo Motor Car Go. v. Gran Grinding Co., 43 Fed. (31) 965 (C. C. A. 5). The emphasis that is hid [fol. 2000], upon Galick's use of a currently experimental platent for business and pleasure for a contiderable partial does not impress in . [Bood tests of many thousands of hilles are contidered moreovery to determine the "Heisery th an agine and its parts." That such transportation is not reached does not of little constitute a public use. (As was mid in the second Goar Grinding case: "We see no principle in the procedure or in the policy of the statute which would re-

quire a valuable invention to be lost by permitting the bar to begin to run while the invention

is being gradually improved and developed up to the point of ascertaining whether it has real utility. Nor can it rightly be said that a public use of a developing and incomplete invention—incomplete as finally claused—can nevertheless operate as a public use bar because adding the final element of perfection did not involve invention as compared with the earlier form to which it was added."

We are not convinced that the Gulick application was broadened to include now matter after intervaning rights had arisen. This issue was adjudiented in the Court of Appeals of the District of Columbia, 17 Fed. (2d) 365, and the Court of Customs and Patent Appeals, 47 Fed. (2d) 366, 367. With the conclusions there reached we agree. As to the Monckmeir and Schoongarth prior uses, it is sufficient to say without analysis of the voluminous evidence, that they rest mainly upon the uncertain memory of witnesses testifying long after the event, and this does not rise to the dignity of proof requisite to establish prior use. Barbed Wire Patent Case, 143 U.S. 275; Hillel Process Case, 261 U.S. 45.

Jardine, upon an application filed March 11, 1970, claimed an invention of which the chief object was construction of a light alloy piston which would operate satisfactorily at all temperatures and lend itself to accomme methods of manufacture. [He cut away all the shirt portions at the webs, extending the inter to marrly the length of the thirt parts or slippers. [Harisontal slots partially insulated the slippers from the head and these were split vertically to render them yieldable to contact with the cylinder wall. The head was integrally connected to the shirt only in the region above the boson. [His thought was that since heat expansion tends to immense the dismeter of the piston in a direction parallel with the wrist pin boson, when the shirt around the bosons is measured, the central part of the wab is free to move while its saids are restrained and resisted by the shirt faces in contact with the cylinder, will. [There is timistent challenge and as invision, defense of the validity of Jardine. [fol. 2391] On the one head it is urased that Jardine in but the slipper attracture of Ricardo patent. No. 1,294,833, and that it involved as invention to marrly slit vertically its skirt parts as disclosed by Guliek and others. [The response

is that Jardine discloses a combination of inter-related operating parts that goes far beyond Ricardo, is economical to construct and carries the Gulick concept an important step forward. Jardine indicates the forces, thermal and mechanical, which bear upon the flexible web to compensate for heat expansion of the cylinder head, pointing to the web as being in effect a cantilever structure, weakest at its supports. Jardine came to the attention of the Aluminum Company and the Maxwell at a time when Ricardo and other English engineers were trying to modify the Ricardo piston to meet the piston problem. It was thought to give great promise. Tests had been made and commercial manufacture planned when the Maynard piston was presented to them. It appeared so much better that the construction illustrated and described by him was adopted. Since it is the Maynard specific form embodying the basic concept of Galick that made commercial piston history, since Jardine was without substantial commercial recognition and none of the accused devices are slipper pistons, since whatever Jardine contributed to the art, if anything, is said to be incorporated in Maynard and since the really important infringement is said to be the copying by the defendants of the commercial embodiment of Maynard, we feel under no necessity at this time of ruling upon the validity of the Jardine patent or the fact of its infringement.

Maynard upon a putent application filed January 3, 1931. embodies the Gulick combination of skirt insulation, skirt flexibility by means of vertical alotting cooperating with longitudinal slotting, and flexible webs in the region of the wrist pine bosses. He also follows Jardine's simplified design to permit economical manufacture and Jardine's boss relief. The Maynard piston, however, is not a slipper piston. While Jardine carried the wabs nearly to the bottom of the skirt and emitted all of the skirt on the web faces, Maynard provided webs about two thirds of the length of the skirt and continued the latter gircumferentially below the webs except for a single vertical slot throughout one bearing face of the skirt. This attracture increased the effect of heat on retarding the expansion of the piston so as to permit of a narrowed web. The upper part of the skirt, which reaches higher temperature, is provided with greater compensation against heat expansion [fol. 2392] by having its periphery interrupted by relief

about the bosses. The lower part of the skirt requires no interruption of its periphery other than the vertical slot because it receives less heat. This results in a better bearing surface and means additional to the piston rings for closing the passage between the piston and the cylinder wall. It is clear that Maynard, while not departing from the teaching of Gulick in basic combination of elements, discloses a piston lighter and more economical of manufacture than Gulick and one more rugged and durable than Jardine. That the Maynard piston had a very great effect upon the industry and substantially advanced the art, there. can be no doubt upon this record. In the precise form disclosed by Maynard and depicted in his drawings, many thousands were made and successfully used. In a somewhat modified form its production and use has run into very many millions.

Little is claimed for Mooers and Schmiedeknscht, and while some of the claims of each may possibly read on some of the accused structures, they have apparently no commercial history and have not substantially advanced the art. We do not pass upon them, and apprehend that the real controversy here is in respect to validity and infringe-

ment of Gulick and Maynard.

Of the devices charged to infringe, the one of prime importance to the plaintiff is undoubtedly the Sterling piston, exemplified by Exhibit 1. The defendants week to avoid infringement by this structure, which with slight modifice. tion, follows the drawings and description of the Maynard patent, and without change, the commercial structure of the plaintiff's licensee, by the contention that its webs are rigid at the top and thus it is distinguished from Maynard, compensation for rigidity being schioved by reducing the thrust faces of the piston shirt at an angle to the vertical sides of the web, giving to the relief in the region of the bosses the so-called "keystone" configuration. But there are no limitations in the claims in suit as to the region of flexibility in the webs, and if the keystone relief provides greater flexibility at the union of the webs with the skirt, it is but a difference in degree, and not one of mode of operation or coult and will not avoid infringement. In comparing commercial embodiments of invention with the drawings of patents it is not unusual to find that without departing from the teachings of the inventor improved

operation may result from some modification of the disclosure. This court has indicated Gordon Form Lathe Co. v. Walcott Machine Co., 32 Fed. (2d) 55, 61, that superjority of operation, even when brought about by a valuable [fol. 2393] improvement which perhaps was patentable as such, will not of necessity negative infringement, eiting Schiedel Toy, etc., Co. v. Clark, 217 Fed. 760, 771, Toledo Machine & Tool Co. v. E. W. Bliss Co., 287 Fed. 443, 447. The Gordon and Redlin putent there considered was in a true sense a pioneer patent and entitled to broad equivalents, but this does not mean that meritorious inventions which substantially advance the art are entitled to no reasonable range of squivalency, As was said in Ribel Process case, supra, at 63: "Ribel made a very useful discovery which has substantially advanced the art. His was not a pioneer patent creating a new art; but a patent which is only an improvement on an old machine may be very meritorious and entitled to liberal treatment. Indeed, when one notes the crude working of machines of famous pi inventions and discoveries, and compares them with the modern machines and prosumes exemplifying the principle of the pioneer discovery, one betitates in the division of credit between the original inventor and the improver; and certainly finds no reasen to withhold from the really meritorious improver, the application of the rule 'Ut res magis valent quant porest which has been sustained in so many cases in this court." A careful consideration of the patents to Guide and Maymard, an analysis of the claims of each in soil, and a course of the cristman as to principles and in sait, and a course of the colleges as to principotent (Statistic)) (Colors of the second special second mt of Maymand, with a

The life of the control of the contr

to such situation: "It is the patentee's necessary dependence upon the co-operation of all the elements in one machine in order to make the claims valid that also makes

this achievement possible."

We find claims 1, 11, 12, 13, 15, 18, 30, 33 of Guliek and Maynard patent in respect to all of the claims sued upon valid. We find such claims to be infringed by the Sterling piston exemplified by Exhibit 1. The decrees below are set aside and the causes remanded for the entry of decrees [fol. 2394] granting the usual relief of injunction and accounting in respect to such infringement as has been found and dismissing the bills with respect to the alleged infringements of Jardine, Movers and Schmiedeknecht, without prejudice. Costs of appeal will be borne by the defendants.

[fol 2395] United States Crecuit Court of Appeals for THE SHEET CHOUSE

I, J. W. Mensies, Clerk of the United States Circuit Court of Appeals for the Sixth Circuit, do hereby certify that the foregoing is a true and correct copy of record and proceedings in the cases of The Gleveland Trust Company and Chrysler Corporation vs. The Schriber Schröth Company, The Aberdsen Motor Supply Company, The F. E. Bowe Sales Company, No. 7223 4-5, as the same remains upon the files and records of said United States Circuit Court of Appeals for the Sixth Circuit; and of the whole thereof.

In testimeny whereof, I have herpunto unburribed my name and affixed the soul of said Court at the City of Cincinnati, Ohio, this 30th day of Documber, A.D. 1987.

J. M. Messies, Cherk of the United States Circuit Court of Appeals for the Shith Circuit. (Seal.)

[fol. 2396] Buranus Court of the United States

No.3

October Term, 1908

Onon ALLOwino Commonto - Pilel May 11, 11

The position bearing for a wait of conformal to the States Coronic Court of Appeals for the State (to the State (t

[fol. 2397] Surama Count or was Union Section

Mode

Carlo Sea Thomas 2000

Chart Atlantan California Phil May 31,

[OLEMON] Server Courses and Unit Thronton

/

Description of the second Principles of

(041)

Supreme Court of the United States

THE CIEVELAND TRUST COMPANY, CHRYSIER CORPORATION.

Mos. 3, 44, and 5, Cotober Term, 1958, as the same remains upon the

files and secretarios said Supreme Court.

An testimony whereof I hereunto unbecribe

cary : name and affix the seal of said

Supreme Court, at the City of Washing
tou; this /- I bustoenth /- -- day

CONTRACTOR OF THE PARTY OF THE

